KOSMOS MALABARES

USER MANUAL

JUGGLING PRODUCTS WITH MAGNETIC PROGRAMMING TECHNOLOGY
plus
DUAL PROGRAM FEATURE

USER MANUAL

Thank you for purchasing our product.
Please take some time to read this simple manual in order to get full benefit and care of the Kosmos Malabares illuminated and magnet-programmable products.

All Kosmos Malabares illuminated products are the result of many years of experience, which have allowed us to standardize some use and quality features. Still, we expect to keep growing with you in order to be able to offer better products and performance, so do not hesitate to contact us to share any concerns you may have at www.kosmosmalabares.com.ar

New features

All products covered by this manual has some new features:

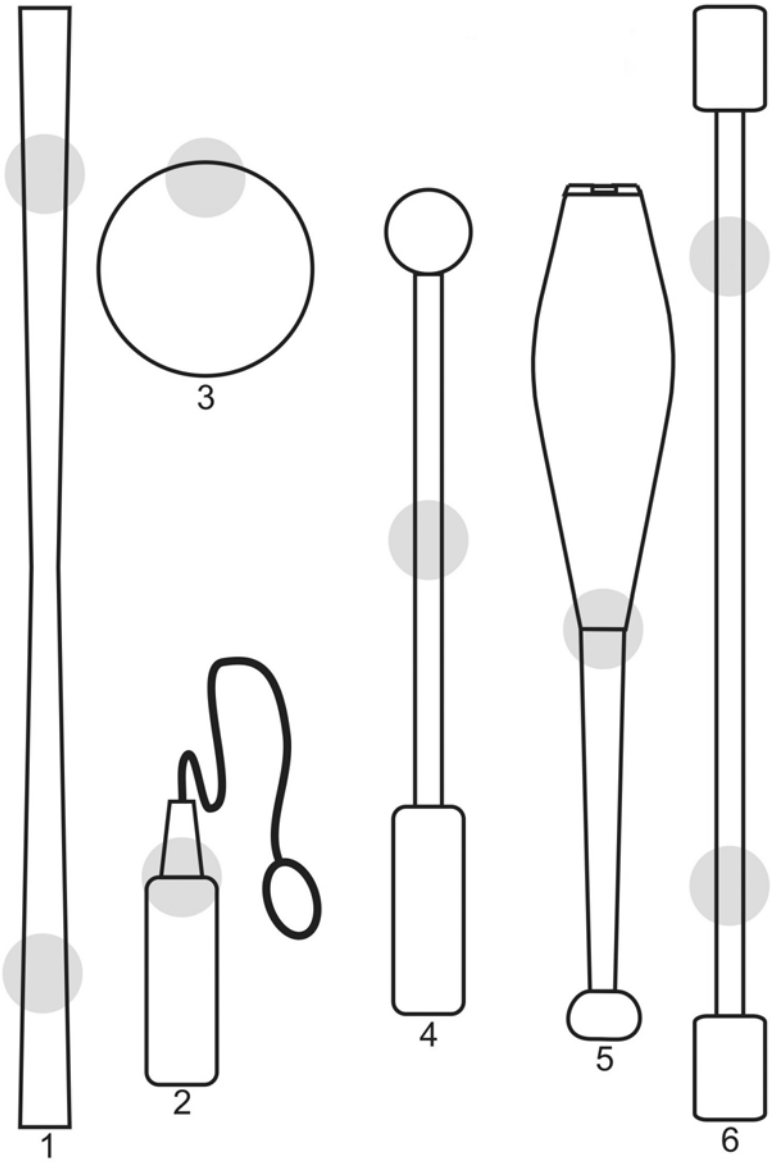
- Dual Program: these products can store up to 2 custom program. This feature improves the product customization by duplicating the programming choices. It also enables to the user to use both programs or only one. When using this feature during performances, the any of the stored programs can be activated or switched from one to the other one with no necessity of entering program mode. Every program stores it own colors and parameters.
- Incorporation of the innovative magnetic programming® system, developed by Kosmos Malabares. This system was launched in 2006 with the first magnet-programmable clubs, and now extends to all items increasing colour options, stage performance, durability and user-friendliness.
- new internal design based on balanced development philosophy and armoured core mechanism
- Touch sensor (some models). This new technology can detect when the juggling product kicks the users hand, making color change synchronization with the juggling performance.

General features

- New stand-by.
- Magnetic programming.
- Touch sensor (some models).
- NiMh batteries, light and “memory effect”-free
- 3 to 6 hours of continuous operation (depending on the program)
- Shockproof design.
- RGB LED technology
- A wide variety of bright colors to be freely chosen and more than 1500 possible combinations (depending on the model)
- Multi multicolored programs for juggling and swing performances.
- DEMO mode displays all the modes automatically
- Memorization of operating 1 or 2 program

Instructions for use

The magnetic programming technology allows to control the illuminated product by sliding a magnet close to the “sensitive” area, whose location depends on each product. The circles below indicate the location of this area in each product.



Note

1. Golo
2. Poi
3. Ball. The sensitive are is opposite to the charging connector
4. Swing
5. Club
6. Staff

The product glows in red every time the magnet is detected.

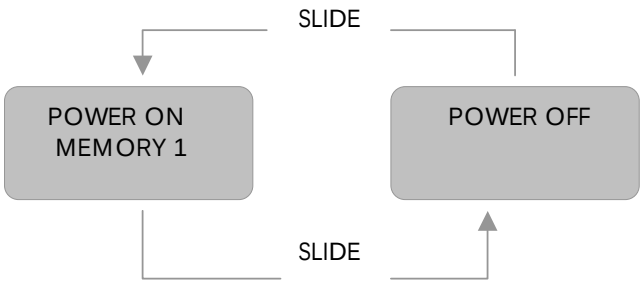
Turning on and off

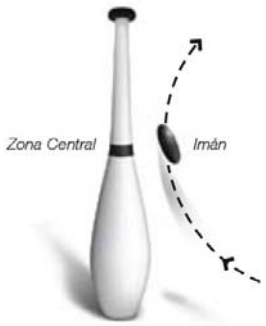
The products with dual programming feature allows to activate 1 or 2 any program from the program list. In case of 2 program are activated, is possible to switch from firs one to second one without entering on program mode.

One active program operation:

1) Switch on the illuminated product by sliding the magnet over the sensitive area. The product will always glow in the previously saved program.

2) Switch it off by sliding the magnet again. The program stored in position 2 is not active.

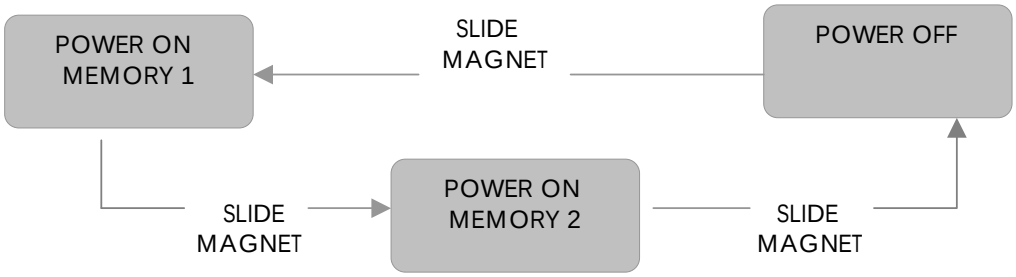




Two active program operation:

1) Switch on the illuminated product by sliding the magnet over the sensitive area. The product will always glow in the program stored in position 1.
2) Slide the magnet again to switch to the program stored in position 2.

Switch it off by sliding the magnet again.

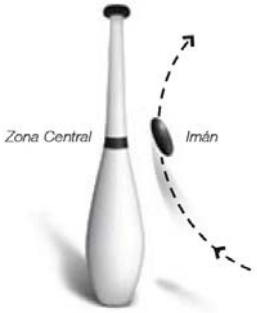


In order to avoid unwanted operation, never transport the magnet near the illuminated products.

How to change the operation mode

1)Switch on the illuminated product

2)Enter the programming menu by keeping the magnet close to the sensitive area until the red light turns off. When it is already off, move the magnet away. The programming menu will now be active.



3)Change the active program by sliding the magnet over the sensitive area. You will get a different program every time.

Visit us at www.kosmosmalabares.com.ar and download the updated program description tables.

In all illuminated products with Magnetic Programming® technology, some operation modes can be fully customized in one or two colors. This means that it is possible to freely choose the color or colors to be used and combined in one operation program. This unique feature increases the possible color combinations to over 1500.

Touch sensor technology

The Touch Sensor technology available in some Kosmos Malabares illuminated products allows the internal microprocessor to detect the precise moment when the product touches the hands while juggling. This way you can get lighting sequences synchronized with the juggling dynamics.

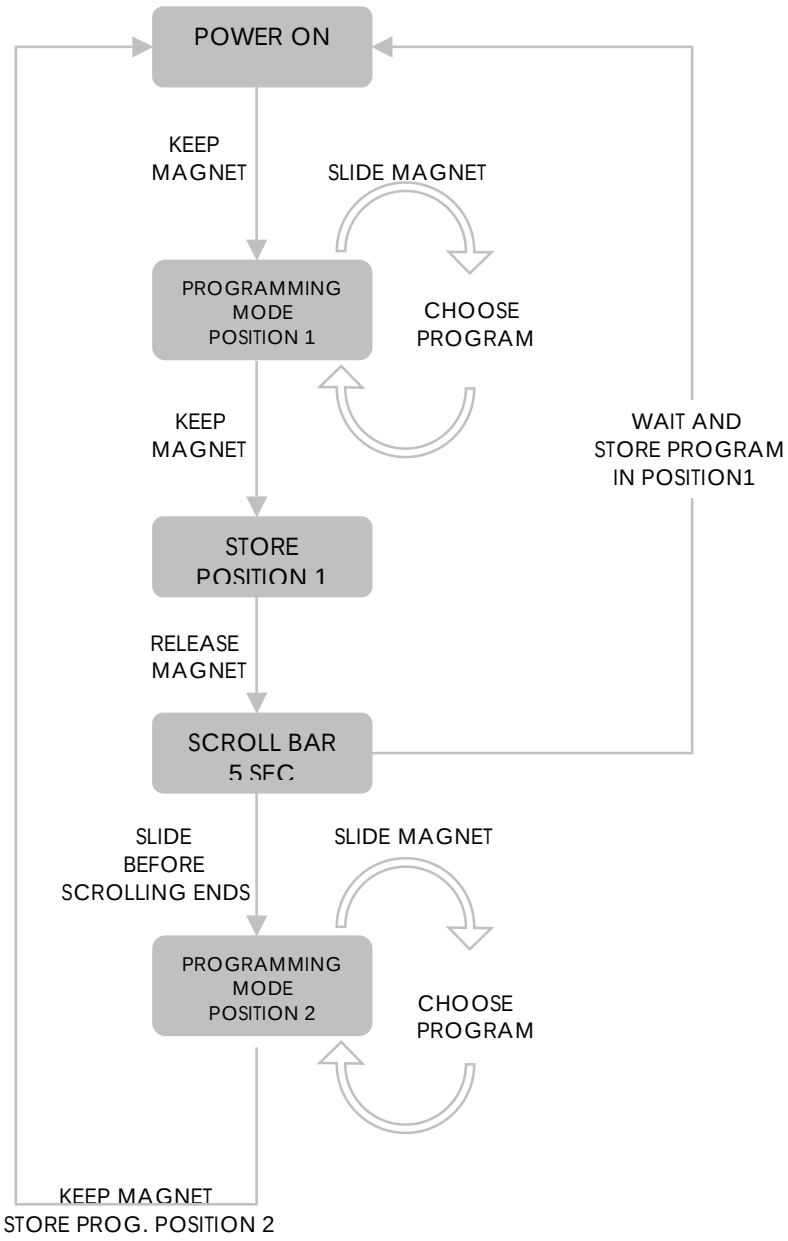
How to save the desired program.

Once you have found the desired program, you must save it in memory position 1 by keeping the magnet close to the sensitive area until the red light goes off. When removing the magnet again, a 5 second scrolling bar in red will be displayed. If you wait until the scrolling bar reaches its end, the option of second program will be disabled and the operation will be like “one active program operation”.

How to activate the second program.

After the storing the first program and remove the magnet, the 5 second scrolling bar will be displayed. Slide the magnet before the scrolling bar reaches its end to activate the programming menu of position 2. Chose the desired program by sliding the magnet in same way as choosing program 1 (see programming table) and store it by keeping the magnet until the red light goes off. Operations now corresponds to “two active program operation”.

Operation and program selection chart



Note:

- Program mode does not deactivate by itself after a certain time.
- Turn-off operation is not possible while in program mode
- The program list is cyclic, so after displaying the last mode in the program table it will begin in MODE 1 again.
- Visit us at www.kosmosmalabares.com.ar and download the updated program description tables.

Battery charging

The illuminated product will lose brightness when battery level is low. If the battery reaches a very low level, the illuminated product will only glow in red. If the battery reaches a critical low level, the illuminated product will flash a red light and then it will be turned off by the battery protection circuitry.
You can make a complete battery charge when the brightness is low. The approximate battery life is specified in the program table for each model.

The batteries can be charged by using any multicharger available in Kosmos Malabares:

- AC adaptor 220V/12VDC - 300mA
- Travel AC auto voltage adaptor 110-240VCA / 12V 500mA
- charge distributor to be used by any 12V source / CAR adaptor

You can also use another standard AC adaptor in case of missing or broken charger, because the charging regulator has been included inside every illuminated product. This way you just need to buy an AC adaptor with the following specification:

- Output: 9 to 24VDC (12V recommended) / 300mA
- Connector type: female plug, 2,1mm
- Polarity: (built in reverse polarity protection in every product)

How to charge the batteries.

To charge the battery you should plug any of the charger outputs to the product charging connector.
If the product is on, it will turn off when receiving charge. This way, it is easy to check the charging procedure: if the juggling product does not turn off, it means there is some abnormal behaviour.
The charging time is 14 hours for full charge. It is possible to make partial charges by charging 7 hours, then using the product for a while and then charging again.

Note: charging the product for more than 14 hours will not increase the glowing time. In case you forget the charger connected to the product for longer time, the protection circuitry will avoid any overload.
Simultaneous charging of different Kosmos Malabares products connected to the same charger is allowed.

System reset:
Every time the product is charged, a restart occurs. This reset does not clear the program memory. If for any reason a reset is needed just plug the charger into the AC outlet supply.

Looking after your product

The illuminated products have been designed for usual falls and kicks during juggling play. The casing material allows impacts on its surface. Use a soft cloth with water or non corrosive soap to clean it.

- Avoid any liquid contact in the charging connector zone.
- Make a full battery charge prior to store your illuminated product for long periods.
- Make a full charge at least one every 4 month.
- Avoid exposures to extreme cold or hot conditions.
- Avoid shocks on the charging connector when the AC adaptor plug is inserted.
- Do not use under the rain.

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment

Twelve-month warranty

Every illuminated product and the AC adaptor are warranted for 12 months if no signs of abnormal use are present. Keep the purchase receipt and the warranty card with the serial number and purchase date to valid the warranty.

Corrosion on charging connector or problems due to use of any kind of solvent are not covered by this warranty.

Frequently asked questions.

How many colors does a Kosmos illuminated product have?	KOSMOS uses RGB color LED technology combined with 8 bit RISC microprocessor to get a full set of 42 colors.
I would like to know more about the 42 colors.	Magnetic Programming technology allows to freely choose any of the 42 colors and combine it with another one. This extends the possible play combinations to over 1500. Colors can be used in 3 different flashing speeds.
Is my Kosmos illuminated product robust enough?	All of our models have been designed and tested for normal shocks during juggling play.
Do they have warranty?	Every Kosmos product has 12-month warranty from purchase date.
Do they include any accessories?	Every illuminated product set includes 1 carrying case, 1 magnet, user manual and warranty card.
What kind of batteries are used in Kosmos Malabaresproducts?	Kosmos uses NiMh "memory effect"- free batteries. This allows partial battery charging without compromising battery life.
How to charge them	Simply connect them to the charger. A battery charge controller is included in every Kosmos product to take care of the internal battery. The battery life is about 1000 charges.
What can I do if I lose the supplied charger?	A battery charge controller is included in every Kosmos product. This allows to use any kind of AC adaptor that fulfils the specification. See Charging chapter in user manual.
How long is the glowing time?	Between 3 and 6 hours depending on the lighting mode.
Why does my Kosmos Mlabares illuminated product turn off when plugging the charger?	This feature allows to check the charging procedure is happening normally.
Why does the product turn on when unplugging the charger?	This behaviour is correct. Slide the magnet to turn it off.
I have lost the magnet. What can I do?	The products are designed to be used with any kind of strong magnet.
I can not switch off my illuminated product.	That may happen because the program mode is active. Keep the magnet close to the sensitive area until the red goes off and try again.
The product behaviour is not right.	Try charging it. The system will restart every time the product receives charge.
I can not enter programming mode on the staff	To enter program mode on the staff you must use the sensitive area **A** that is located next to the charging connector
I can not turn on the product. It makes a red flash every time I slide the magnet.	1) Try speeding up the sliding, 2) The battery is flat. Perform a complete charge.